

P5020NSN7VNB



**Part Number:** [P5020NSN7VNB](#)

**Manufacturer:** [NXP Semiconductors / Freescale](#)

**Description:** IC MPU Q OR IQ 2.0GHZ 1295FCBGA

**Data sheet:**  [P5 Series Fact Sheet](#)  
 [P2040/41, P3/P5 Series Brief](#)

**RoHs Status:** Lead free / RoHS Compliant

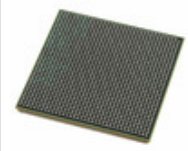
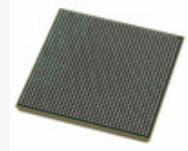
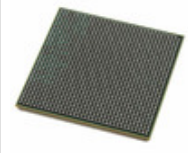
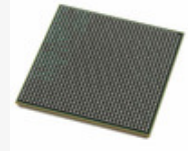
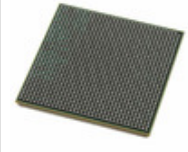
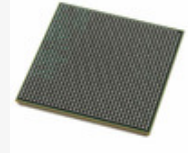
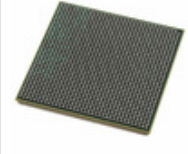
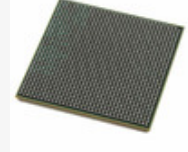
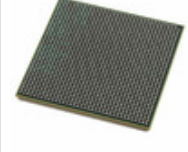
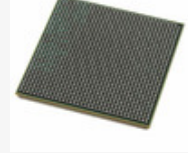
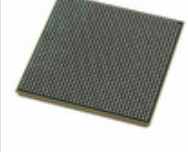
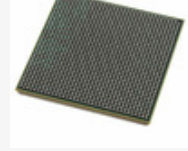
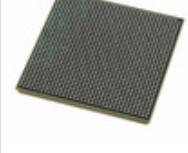
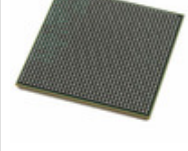
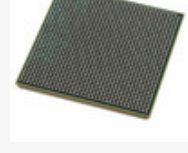
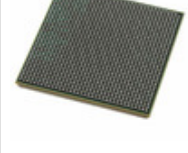
**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |                                |                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | P5020NSN7VNB                              | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IC MPU Q OR IQ 2.0GHZ 1295FCBGA           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                             |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 230 pcs                                   | Data sheet                     | <a href="#">P5 Series Fact Sheet</a><br><a href="#">P2040/41, P3/P5 Series Brief</a>   |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <a href="#">Integrated Circuits (ICs)</a> | Voltage - I/O                  | -                                                                                      |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | USB 2.0 + PHY (2)                         | Supplier Device Package        | 1295-FCPBGA (37.5x37.5)                                                                |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.0GHz                                    | Series                         | QorIQ P5                                                                               |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                         | SATA                           | SATA 3Gbps (2)                                                                         |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DDR3, DDR3L                               | Packaging                      | Tray                                                                                   |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1295-BBGA, FCBGA                          | Other Names                    | 935311442557                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0°C ~ 105°C (TA)                          | Number of Cores/Bus Width      | 2 Core, 64-Bit                                                                         |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                             |
| Graphics Acceleration                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No                                        | Ethernet                       | 1 Gbps (5), 10 Gbps (1)                                                                |
| Display & Interface Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                         | Detailed Description           | PowerPC e5500 Microprocessor IC QorIQ P5 2 Core, 64-Bit 2.0GHz 1295-FCPBGA (37.5x37.5) |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PowerPC e5500                             | Co-Processors/DSP              | -                                                                                      |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DUART, I <sup>2</sup> C, MMC/SD, SPI      |                                |                                                                                        |
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| RELATED PRODUCTS                                                                   |                                                                                     |                                                               |                     |
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